

MINUTES OF THE ANNUAL MEETING.

The Fifteenth Annual Meeting of the Entomological Society of America was held in Chicago, Room 20, Kent Hall, University of Chicago, on December 27th and 28th, 1920.

First Session.

The meeting was called to order at 2 P. M., December 27th, by the Secretary, in the absence of the President and Vice-Presidents. Attendance 35, increasing to 70 in the course of the session. Professor W. A. Riley was elected President *pro tem* and took the chair. The following papers were read:

The Immature Stages of Some Chrysopidæ.....R. C. SMITH
Notes on the Immature Stages of *Cladura flavoferruginea* O. S...

C. P. ALEXANDER

Wing Venation of Coleoptera.....S. A. GRAHAM

The Caterpillar Used as Food by the Mono Lake Indians, J. M. ALDRICH

A Peach-deforming Capsid (read by P. J. Parrott)...HUGH GLASGOW

Notes on the Ancestry of the Thysanoptera and Hemiptera-

Homoptera (read by C. P. Alexander).....G. C. CRAMPTON

The Attraction of *Chloridea obsoleta* to the Corn Plant.....

J. W. MCCOLLOCH

Distribution and Habits of Cicadellidæ on Presque Isla, Pa.....

J. G. SANDERS and D. M. DELONG

The chair appointed the following committees:

Auditing—HINDS, BENTLEY, ROGERS.

Resolutions—SATTERTHWAIT, CHAPMAN, MCINDOO.

Nominating—OSBORN, MELANDER, SWAINE.

At 4:40 P. M. the session adjourned.

Second Session.

The Society was called to order at 10 A. M., December 28th, by First Vice-President F. E. Lutz.

This being the business session, the Secretary presented for the Executive Committee the Reports of the Secretary and Treasurer and the Managing Editor of Annals.

SECRETARY'S REPORT, 1920.

The following members have died during the year:

DR. C. GORDON HEWITT.
WILBUR ROSS MCCONNELL.

MISS CAROLINE GRAY SOULE,

The following have resigned:

DR. JOHANNES DEWITZ.
MRS. W. R. THOMPSON.
DR. A. FENYES.
DETTMAR W. JONES.
PROF. J. E. GUTHRIE.

GEO. O. DAY.
HOWARD L. CLARK.
F. V. GREEN.
V. L. WILDERMUTH.

Total, 9.

Dropped from the list for non-payment of dues: Foreign, 18; American, 35. Total, 53. This is an unusual number, as on account of war conditions many names were not dropped in the last two or three years that would ordinarily have been.

Total losses, 66.

The following were voted into membership by the Executive Committee on June 6, 1920.

WM. E. HOFFMAN.
HUGH W. BEDFORD.
EDWIN H. BRYAN, JR.
JOHN L. BUYS.
MELVIN H. HATCH.
GLADYS HOKE.
AMY DE HORRACK FOURNIER.
WESLEY O. HOLLISTER.

HUGH C. HUCKETT.
PERCY IRELAND LATHY.
LEONARD M. PEAIRS.
FRED SCHWARZ.
CHAS. K. SIBLEY.
RALPH P. THOMPSON.
B. W. WELLS.

Total, 15.

Elected at the present meeting:

ALFRED B. BAIRD.
WALTER B. BALDUF.
LULU BERRY.
STANLEY W. BROMLEY.
JOHN D. DETWILER.
GRACE H. GRISWOLD.
MARSHALL HERTIG.
HARRY E. JAQUES.
DONALD S. LACROIX.
O. C. MCBRIDE.
DON C. MOTE.
EVELYN OSBORN.

FAUSTINO Q. OTANES.
GEO. B. PEARSON.
MAX M. RUHER.
RUDOLF G. SCHMIEDER.
RAYMOND C. SHANNON.
JAS. M. SWAINE.
O. H. SWEZEY.
R. J. TILLYARD.
LEOPOLDO B. UICHANCO.
MILTON F. WEBSTER.
ROSCOE W. WELLS.
KARL H. WENDLER-FUNARO.

Total, 24.

On December 21st, when the books for 1920 were closed, it was found that the members had paid dues as follows:

Paid for 1921.....	281
Paid for 1920.....	183
Paid for 1919.....	35
Owing more than 1 year.....	37
Life Members.....	11
Honorary Fellows.....	6
	<hr/>
Total membership.....	543
Elected this meeting.....	24
	<hr/>
Actual present membership.....	567

Respectfully submitted,

J. M. ALDRICH,
Secretary-Treasurer.

December 21, 1920.

TREASURER'S REPORT, 1920.

RECEIPTS.

Balance last Report.....	\$1,235.56
Dues from members.....	1,064.50
From Managing Editor of Annals.....	319.92
Interest—Current Account.....	16.73
Permanent Funds.....	30.90
	<hr/>
Total.....	\$2,667.61

DISBURSEMENTS.

Printing Annals for 1919:	
March.....	\$ 177.36
June.....	295.77
September.....	259.41
Engraving for Annals.....	125.73
Secretary's Office:	
Postage.....	11.00
Printing.....	22.24
Clerical Assistance.....	40.00
Safety deposit box, one-half.....	2.50
Cash Book.....	1.65
One Liberty Bond.....	50.02
Loss on exchange.....	.29
	<hr/>
Balance, cash on hand.....	\$1,681.64
	<hr/>
Total.....	\$2,667.61

NOTE—On account of not being able to get the printers of Annals to submit their bills, we now owe for December, 1919, and all of 1920, which accounts for our large cash balance.

CONDITION OF PERMANENT FUNDS.

On hand, last report.....	\$794.01
Appreciation of nine War Savings Stamps.....	1.08
	<hr/>
Total.....	\$795.09

In this valuation the Liberty Bonds are estimated at their face value.

SECURITIES HELD.

First Liberty Loan, No. B00911757.....	\$ 50.00
Second Liberty Loan, No. B02787752.....	50.00
Third Liberty Loan, No. 5876278.....	50.00
Third Liberty Loan, No. 5876279.....	50.00
Third Liberty Loan, No. 5876280.....	50.00
Third Liberty Loan, No. 4203250.....	100.00
Third Liberty Loan, No. 4203251.....	100.00
Fourth Liberty Loan, No. 490434.....	100.00
Fourth Liberty Loan, No. 4714709.....	50.00
Fourth Liberty Loan, No. 6951394.....	50.00
Fourth Liberty Loan, No. 14145891.....	50.00
Victory Liberty Loan, No. A1562358.....	50.00
Nine War Savings Stamps, present value.....	40.23
Balance, carried in Current Fund.....	4.86
Total.....	\$795.09

Respectfully submitted,

J. M. ALDRICH,
Secretary-Treasurer.

December 21, 1920.

REPORT OF THE MANAGING EDITOR.

It may be said that the conditions for publication of the ANNALS have been somewhat as in the previous year and delays in the appearance of the various numbers has been due to difficulty in the matter of paper and printing, which we hope will be improved for the coming year. The Managing Editor has endeavored to secure the opinion of other members of the Editorial Board and of the Executive Committee with reference to the policy of increasing the subscription price and membership fee so that a larger journal may be issued with the result that no very definite conclusion can be offered at present. The Editorial Board would all like to see a larger and more fully illustrated journal but do not all agree as to the advisability of increasing the price of the journal. While there seems to be good argument in favor of increasing the price so as to correspond with other journals of about equal size and probably somewhat nearer the same circulation, we must recognize the possibility of a reduced circulation if the price is much increased and it would seem wise if any increase is made that it should be made large enough to offset any possible shrinkage in subscriptions or membership.

The expenses of the office have been kept down to a very moderate figure, smaller perhaps than can be expected in the future; however, accounts that will be due for reprints issued will help somewhat in the coming year's accounts. We have been favored by a number of the authors of papers in the current year's volume who have agreed to meet the cost of plates and in a few instances have paid for some additional expenses for their published articles. This has made it possible to issue a number of articles much more promptly than would have been possible without such assistance.

The character of papers which have made up the year's volume will, I believe, compare favorably with preceding years and with other journals and I trust that the members will appreciate that the interests of the society are very broad and that while certain articles may seem quite uninteresting to them individually that there may be other members who will find them distinctly interesting. As our society is organized to cover both North and South America and as the members are interested in fauna of related regions it is evident that along with the distribution in the different orders of insects there will be a pretty wide distribution of subject matter. It is also desirable to include papers of ecological character and those relating to morphology or general biology since few of the journals give much space to matter of this kind; in short, there seems every reason to consider the contents as covering a very broad field of Entomology.

The receipts of the office have amounted to \$381.25 and the office expenses paid directly from this office have been \$61.33. The balance of \$319.92 has been transmitted to the Secretary-Treasurer as shown by accounts and vouchers submitted. The itemized statement may be briefly summarized as follows:

RECEIPTS.	
Subscriptions.....	\$262.50
Sale of back volumes.....	95.25
Reprints and engravings.....	23.50
Total.....	\$381.25

DISBURSEMENTS.	
Postal Deposits and Stamps.....	\$ 35.54
Clerical assistance and labor.....	18.80
Supplies and exchange.....	6.99
Balance paid to Treasurer.....	319.92
Total.....	\$381.25

Respectfully submitted,

HERBERT OSBORN,
Managing Editor.

The Secretary also reported that the Executive Committee had re-elected Prof. Herbert Osborn as Managing Editor, and had elected the following on the Editorial Board: WILLIAM S. MARSHALL, V. L. KELLOGG, F. E. LUTZ.

The report of the Treasurer of the Thomas Say Foundation had not been received*; the Editor of the Foundation, J. M. Aldrich, made a verbal report to the effect that the prospect is improving for the printing of a second volume by the Foundation, and asking the members to bring desirable manuscripts to his attention.

*It is appended to the Secretary's Report on the following page.

REPORT OF TREASURER OF THE THOMAS SAY FOUNDATION
FOR THE YEAR 1920.

RECEIPTS FOR 1920.

Balance on hand January 1st, 1920.....	\$210.93
3 Subscribers at \$2.55.....	\$ 7.65
5 Subscribers at 2.25.....	11.25
20 Subscribers at 3.00.....	60.00
28 Volumes sold.....	78.90
Interest on \$200 Bonds (to September 15).....	8.50
Total Receipts, 1920.....	\$298.33

EXPENDITURES FOR 1920.

Printing Cards (pd. Mch. 4).....	\$ 7.00
Postage on 28 Copies.....	3.92
Total expenditure, 1920.....	\$ 10.92
Cash on hand to balance.....	287.41
Total.....	\$298.33
Balance on hand January 1, 1921.....	\$287.41

Volume I *Sarcophaga* & Allies has now paid for the net cost of publication and distribution with a balance of 41 cents in its favor. Of \$287.41 now on hand, \$260.00 belongs to the original endowment, leaving a cash balance of \$27.41 on hand as an offset against the original grant of the Society of \$50.00 for the establishment of the *Foundation*. Of the original edition of this Volume, 200 copies were bound and of this number, 19 were distributed to the collaborators of the author, 35 to the subscribers to the Foundation and 143 have been sold, making a total of 197 *copies distributed* to date.

Respectfully submitted,

(Signed) E. D. BALL,
Treasurer.

The Auditing Committee made the following Report:

Your Committee finds the Report of the Managing Editor, showing a total of \$381.25, to be correct and properly checked by vouchers except in two small items, amounting to \$1.83.

Second, your Committee has carefully examined the account of the Treasurer and finds the same to be well kept and correct, vouchers being presented for all items except: (List omitted, as these mislaid vouchers were all submitted to the Chairman of the Committee later.)

Third, as to the Statement of Permanent Funds, the Treasurer's Report is accepted without evidence as to securities held, as it is manifestly undesirable to transport them to the meeting.

W. E. HINDS, *Chairman.*
G. M. BENTLEY.

On motion the report was adopted.

The Committee on Resolutions reported as follows:

Your Committee on Resolutions begs leave to submit the following resolutions:

That the Entomological Society of America desires to express to the authorities of the University of Chicago its hearty appreciation for the use of the rooms and the facilities placed at its disposal for the purpose of its annual meeting, and that the Secretary send a copy of the resolutions to the authorities of the University of Chicago.

That the Society keenly feels the loss of our members, Dr. C. Gordon Hewett and Prof. Wilbur Ross McCowell and Miss Caroline G. Soule, whose deaths occurred during the past year. It wishes to express its appreciation of the lifelong work of these members who contributed so much to the advancement of the science of Entomology. Therefore, it instructs the Secretary to write letters of condolence to the families of our deceased members.

Respectfully submitted,

ROYAL N. CHAPMAN,
A. F. SATTERTHWAIT,
N. E. McINDOO.

On motion the report of the Committee was accepted.

The Executive Committee referred the subject of increase of dues to the Society without recommendation. It appeared that the mail ballot taken by the Secretary in connection with sending out the annual notices had resulted in the following vote:

Favoring three dollars.....	144
Favoring two dollars.....	68
Not expressing preference.....	31

After considerable discussion the sentiment appeared to be in favor of waiting another year to see what the trend of printing costs will be, before making a change from the present rate of two dollars per year. So no motion was made and the matter laid aside for the reading of papers. The following were read:

Life History Notes on Some Forest Homoptera HERBERT OSBORN

A Review of the Known Fulgoridæ of Eastern North America . . .

Z. P. METCALF

At noon the session adjourned.

Third Session.

The meeting was called to order at 2 P. M., December 28th., by President L. O. Howard.

The Executive Committee reported that they have elected the following additional Fellows of the Society:

C. P. ALEXANDER.
 PROF. MARIO BEZZI,
 Turin, Italy.

C. L. METCALF.
 W. D. FUNKHOUSER.
 T. J. HEADLEE.
 WARREN KNAUS.
 J. McDUNNOUGH.

EDNA MOSHER.
 J. G. SANDERS.
 V. E. SHELFORD.
 PROF. F. SILVESTRI,
 Portici, Italy.
 P. S. WELCH.
 WM. SCHAUS.
 CARRINGTON B. WILLIAMS.

The Nominating Committee reported the following nominations of officers for the coming year:

President—J. M. ALDRICH.

First Vice-President—ARTHUR GIBSON.

Second Vice-President—E. C. VAN DYKE.

Secretary-Treasurer—C. L. METCALF.

Additional Members Executive Committee—E. M. WALKER, F. E. LUTZ, W. A. RILEY, O. A. JOHANNSEN.

Committee on Nomenclature—E. P. FELT, T. D. A. COCKERELL, NATHAN BANKS.

On motion, the Secretary was instructed to cast the ballot of the Society for the Officers nominated; which being done, they were declared duly elected.

On motion, it was voted to combine the evening program with that of the afternoon, so as to avoid a conflict in the evening with the biologists' smoker.

The Society then proceeded with its program, as follows:

The Role of Insects in Zooecidial Evolution.....B. W. WELLS
 Attempts to Culture the Bacterial Symbionts of Blattidæ.....

MARSHALL HERTIG

Symposium: The Relations between Taxonomic Affinities and Food Habits of Insects, with Special Reference to Parasitism.

A. Hymenoptera.....CHAS. T. BRUES

B. Diptera.....J. M. ALDRICH

C. Mallophaga.....VERNON KELLOGG

A Recent Visit to Certain European Entomologists...L. O. HOWARD

The Life of the Bumblebee.....T. H. FRISON

Annual Address—Some Little-Emphasized Guideposts to Medical Entomology.....W. A. RILEY

The Evolution of the Subterranean Habit in Lepidopterous Larvæ
 L. B. RIPLEY

At 6 P. M. the meeting adjourned, the attendance at the last session having been about 135.

J. M. ALDRICH,
Secretary.

REPORT OF COMMITTEE ON U. S. NATIONAL MUSEUM.*

Your Committee begs leave to report, as follows:

First: Activities during the year 1920.

In order that all might understand the importance of the Division of Insects of the U. S. National Museum and realize its needs to handle the vast volume of material submitted to it by entomologists for study and information, our report, submitted at the last annual meeting at St. Louis was printed in *Science*, as well as in the entomological journals, and reprints furnished to entomologists throughout the country for their use in advising on the subject. As a result the report was approved and assistance extended by the National Research Council, the Florida Entomological Society and the Indiana Academy of Science.

An itemized budget was not included in our report a year ago but the past year this matter has been carefully studied and a budget totaling \$83,660.00 was decided upon as the amount needed at once. This amount is considered adequate to provide the needed curators, assistants and preparators, and will also furnish a suitable allowance for the purchase of needed supplies and equipment and permit a small amount for travel and exploration and in addition make it possible to inaugurate proper facilities for publication. This budget was presented to Dr. C. D. Walcott, Secretary of the Smithsonian Institution, October 1st, with the urgent request that he include the item in his budget for the National Museum. This could not be done as the budget had been sent to Congress previous to June but Doctor Walcott generously agreed to approve the item provided its inclusion by the house committee could be secured. Consequently the matter was taken up with Congressman Good, Chairman of the House Appropriations Committee, Doctor Walcott at the same time approving the item in a letter to Chairman Good. To this request we were advised that owing to the deficiency in the treasury and the many needs confronting Congress that additional appropriations could not be considered at this time. After careful consideration your committee believes it advisable to refrain from pushing the matter at the present session of Congress but to request insertion of the item in the Museum budget at the next session of Congress.

Second: Support needed. Your committee urges every member to be in readiness to secure the indorsement for National Museum support if needed. This refers to personal contact with your representatives in Congress or otherwise securing their support. We would urge especially that the scientific societies of the different states be advised of the needs and that their indorsement be secured and likewise that the approval and support be secured from such agricultural bodies as the state horticultural societies, agricultural societies, etc.

* This report was adopted as a joint report with the American Association of Economic Entomologists.

We would urge that each one of you take every opportunity to educate the people relative to the importance and needs of the National Museum as a whole for we must build up every branch of the Museum if in future years we are to maintain a normal growth and expansion of the Division of Insects.

Third: Deposition of Types in the U. S. National Museum. Your committee feels that the National Museum should be the mecca for taxonomic entomological activity in the United States and would urge that entomologists make it a point to deposit types in the Museum. We would urge state institutions to likewise place the types, now in their collections, in the custody of the National Museum. This is already being done by certain institutions. Thus the type collections of the Connecticut Agricultural College, Colorado Agricultural College, Kansas Agricultural College, The Norton Collection at Yale, and others, will all probably be in the National Museum. We cannot urge too strongly that other institutions and individuals follow suit. In return the Division of Insects of the Museum promises to give the donors species new to their collections and help to build up their collection along the lines which will be most valuable to them. They further agree that any of the types there deposited are accepted on the condition that they can be borrowed by their institution at any time and for any reason, but they are not to go to any institution, or individual not connected with the institution presenting the material.

Respectfully submitted,

JOHN J. DAVIS,
W. J. HOLLAND,
V. L. KELLOGG,
E. P. FELT,
HERBERT OSBORN,
Committee.